

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 86-97

WASTE DISCHARGE REQUIREMENTS FOR:

NAPA VALLEY MARINA
NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. The Napa Valley Marina, hereinafter called the Discharger, is located at 1200 Milton Road, approximately 2.5 miles south of Highway 12 in Napa County, on the west bank of a tidal section of the Napa River. The Marina has the capacity to harbor 140 boats averaging 35 feet in length. An average of 120 boats are in the Marina at any given time. Other facilities include a store, three one-bedroom apartments, and restrooms.
2. The Discharger presently owns and operates a sewage system which includes two septic tanks and two evaporation ponds (approximately 30'x60'x7' each) located along the Milton Road, to the west of the Marina. This system has been in operation for over 20 years. All boats are equipped with their own Coast Guard approved toilets and disposal systems and they do not contribute domestic wastewater to the Marina's system. The existing system is governed by the waste discharge requirements adopted by the Board on February 17, 1976, in Order No. 76-15.
3. The owners of the Napa Valley Marina, Mr. Albert & Lawrence Giovannoni, filed a Report of Waste Discharge on October 14, 1986 to the Board, with technical report dated September 19, 1986, and proposed relocation of the ponds as well as minor modifications to the sewage system.
4. Estimated domestic wastewater in the quantity of 700 gallons per day (gpd) will enter a new 2,000 gallon septic tank prior to being pumped to a holding pond for treatment and storage. The proposed holding pond will be 74' by 124' at the top surface and 11' deep. Excluding the top 2' freeboard, maximum storage capacity would be 324,000 gallons. During dry months, treated effluent will be disposed in a shallow evaporation pond (165' by 74') located next to the holding pond. There would be no waste discharge to the surface water. The proposed ponds are located on the Discharger's property, adjacent to the Carneros Creek, outside the 100-year flood zone. In case of pond overflow, wastewater would be discharged into the Carneros Creek thence to the Napa River and San Pablo Bay. Attachment A is a location map of the proposed sewage facilities and is hereby made a part of this Order.
5. The Discharger has a Corp of Engineer permit to perform hydraulic maintenance dredging within the marina. Annually, dredged spoils are disposed on land in an area adjacent to the marina. Order No. 76-15, in part, prescribes discharge requirements and sampling program for the discharge of settled wastewater from the dredged spoil disposal area

(returned flow) back into the Napa River. The Discharger has expressed its intent to continue its dredging operation without return flow into the surface water and thus make the disposal of dredged spoil a self-contained process via natural evaporation and percolation only. This Order is revised accordingly to reflect that operation change.

6. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on July 21, 1982. The Basin Plan contains water quality objectives for the Napa River and tributaries.
7. The beneficial uses contained in the Basin Plan for the lower Napa River downstream from the vicinity of Napa Valley Marina are:
 - a. Navigation
 - b. Water contact recreation
 - c. Non-contact water recreation
 - d. Warm fresh water habitat
 - e. Cold fresh water habitat
 - f. Wild life habitat
 - g. Preservation of rare and endangered species
 - h. Fish migration and spawning
8. The County of Napa determined on the basis of an initial study that the project, as described, will have no significant adverse impact on the environment, and therefore adopted a Negative Declaration regarding this project dated October 1, 1986 in accordance with the California Environmental Quality Act (Public Resources Code Section 2100 et. seq.).
9. The Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
10. The Board, in a properly-noticed public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED THAT the Napa Valley Marina, in order to meet the provisions contained in Division 7 of the California Water code and regulations adopted thereunder, and the provisions of the Clean Water Act, as amended, and regulations and guidelines adopted thereunder, shall comply with the following:

A. Prohibitions

1. There shall be no bypass or overflow of wastewater to waters of the State from either the dredging spoil disposal area or the sewage collection, treatment, and disposal facilities.
2. The wastewater shall not be allowed to escape from the Discharger's holding/evaporation ponds into waters of the State via surface flow, seepage, or resurfacing after percolation.
3. The discharge of industrial pollutants or toxic substances into the

treatment pond interfering with the pond's biological treatment functions is prohibited.

4. The average of wastewater flow entering the treatment pond exceeding 700 gpd is prohibited.

B. Discharge Specifications

Holding/Treatment Pond

1. The holding pond shall be fenced to exclude public contact with wastewater and shall be clearly identified with conspicuous warning signs.
2. The holding pond shall be adequately protected from erosion, washout, and flooding from a rainfall event having a predicted frequency of once in 100 years.
3. To prevent threat of overflows, a minimum freeboard of 2 feet shall be maintained in the pond at all times.
4. Wastewater at the surface of the pond shall meet the following quality limits at all times:

In any grab sample:

Dissolved Oxygen	2.0 mg/l minimum
Dissolved Sulfide	0.1 mg/l maximum
pH	6.0 minimum 9.0 maximum

5. The bottom of the proposed new pond must be lined or compacted so that percolation of waste into subsurface soils has a rate of less than 10^{-6} cm/sec.
6. The perimeter berm shall have a minimum width of 12 feet for the passing of mosquitoes abatement vehicles.

Evaporation/Disposal Pond

7. The evaporation ponds shall be fenced to exclude public contact with wastewater and shall be clearly posted with warning signs.
8. No wastewater is allowed to be pumped to the disposal pond during the period of November 1 through March 31 of each year. A minimum freeboard of one foot in the disposal pond must be kept all the time during the disposal period. Prior to October 31 of each year, all the remaining wastewater in the disposal pond shall be pumped back to the holding pond for storage.

Dredging Operation

9. The maintenance dredging shall not cause the following conditions

to exist in waters of the State:

- a. Floating, suspended, or deposited macroscopic particulate matter or foam at any place more than 100 feet from the location where dredging operation is taking place.
 - b. Bottom deposits or aquatic growth.
 - c. Discoloration beyond present natural background levels at any place more than 100 feet from the point of dredging.
 - d. Visible floating, suspended, or deposited oil or other product of petroleum origin.
10. Dredged spoil shall be contained in the designated disposal area without escaping into adjacent properties, or into any wetland areas or any surface waters.
 11. The Discharger shall discontinue the dredging operation immediately when he has reason to believe that either item 9 or 10 above is being violated or is threatening to be violated.

C. Provisions


1. The treatment and disposal of wastewater, and the dredging operation shall not create a nuisance or pollution as defined by Section 13050 of the California Water Code.
2. The treatment and disposal of waste shall not degrade the quality of any groundwater suitable for domestic use or cause an increase in any quality parameter that would make groundwater unsuitable for irrigation use.
3. The Discharger shall maintain in good working order and operate as efficiently as possible any facilities or control system installed by the Discharger to achieve compliance with the waste discharge requirements.
4. A high water level alarm system shall be installed in the pump sump downstream of the septic tanks to serve as a warning device to prevent the occurrence of overflow resulting from power failure or mechanical breakdown.
5. The Discharger shall comply with a Self-Monitoring Program as ordered by the Executive Officer.
6. By October 1 of each year, the Discharger shall submit a report, to the satisfaction of the Executive Officer, containing the depth of freeboard in the pond, and an assessment of the ability of the pond to maintain the minimum two-foot freeboard throughout the wet season with anticipated rains and waste inflow.
7. The Discharger shall permit the Board or its authorized representatives in accordance with California Water Code Section 13267(c):

- (a) Entry upon premises in which an effluent source is located or in which any required records are kept.
 - (b) Access to copy any records required to be kept under terms and conditions of this Order.
 - (c) Inspection of any monitoring equipment or method required by this Order.
 - (d) Sampling of any discharge and reclaimed water.
8. When an approved public sanitary sewer service is available within 400 feet of the ponds, the Discharger shall consider connection to the sanitary sewer and submit a technical report with time schedule, to the satisfaction of the Executive Officer, describing the time frame for the proposed connection.
9. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the Discharger, the Discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be forwarded to this Board.
10. The Discharger shall file with the Board a report on waste discharge at least 120 days before making any material change or proposed change in the character, location, or volume of the reuse.
11. In the event the Discharger is unable to to comply with any of the conditions of this Order due to:
- (a) Breakdown of waste treatment equipment;
 - (b) Accidents caused by human error or negligence; or
 - (c) Other causes such as acts of nature,
- the Discharger shall notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to correct the problem and the dates thereof, and what steps are being taken to prevent the problem from recurring.
12. The Board will review this Order periodically and may revise the requirements when necessary.
13. After notice and opportunity for a hearing, this Order may be terminated or modified for cause, including, but not limited to:
- (a) Violation of any term or condition contained in this Order;
 - (b) Obtaining this Order by misrepresentation, or failure to

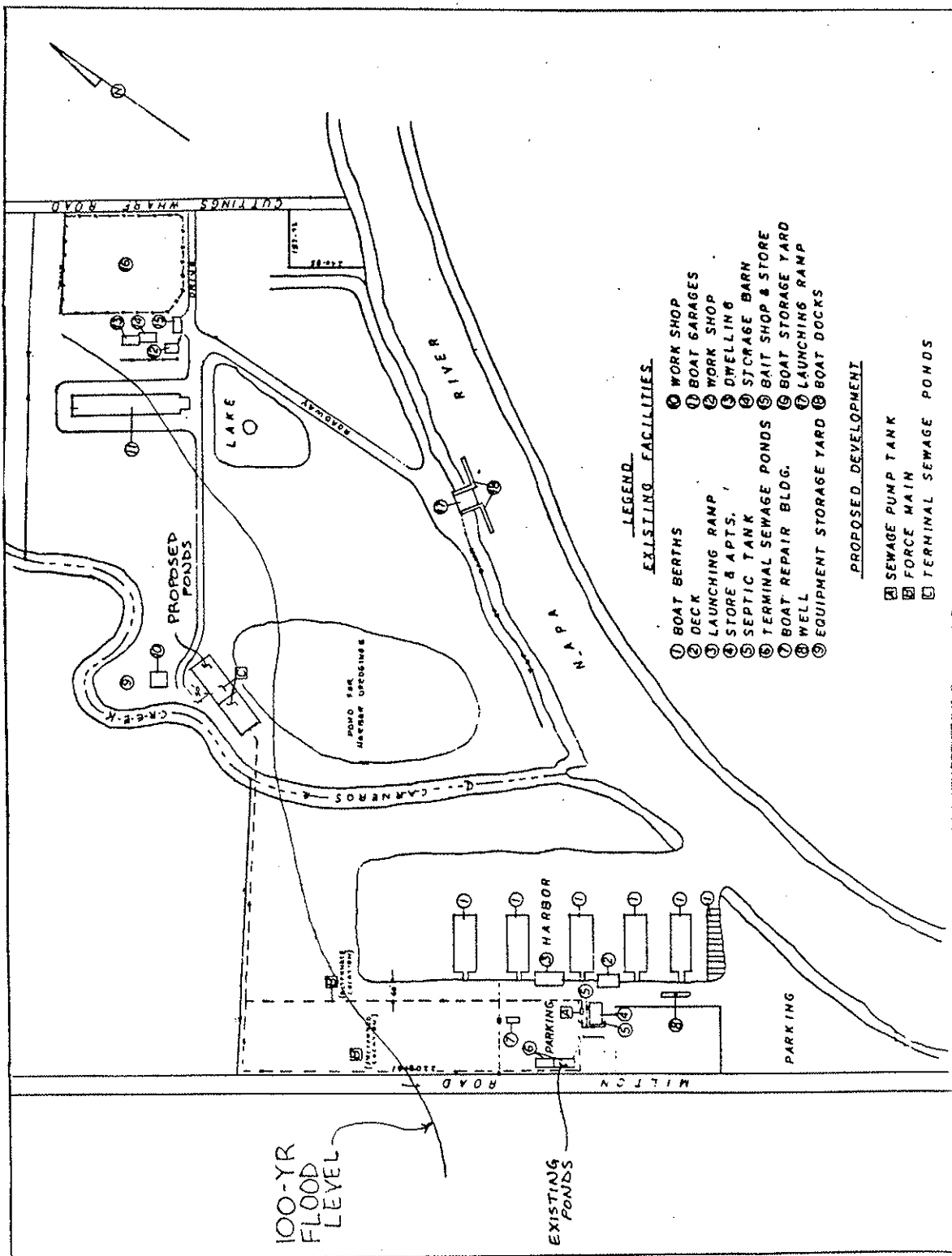
disclose fully all relevant facts; and

- (c) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized reuse.
- 14. In reviewing compliance with Prohibition A.1., A.2., and Discharge Specification B.3. of this Order, the Board will take special note of the difficulties encountered in achieving compliance during entire wet seasons having a rainfall recurrence interval of greater than once in ten years.
- 15. The requirements prescribed by this Order supersedes the requirements prescribed by Order No. 76-15 adopted on February 17, 1976. Order No. 76-15 is hereby rescinded.

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on December 17, 1986.


ROGER B. JAMES
Executive Officer

Attachments:
Location Map
Self-Monitoring Program



STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ATTACHMENT A: LOCATION MAP
NAPA VALLEY MARINA
NAPA COUNTY

DRAWN BY:

DATE:

DRWG. NO.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

F I N A L
SELF-MONITORING PROGRAM
FOR

NAPA VALLEY MARINA

NAPA COUNTY

ORDER NO. 86-97

CONSISTS OF

PART A

PART A

I. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as a self-monitoring program, are:

1. To document compliance with waste discharge requirements and prohibitions established by the Regional Board.
2. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge.

II. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the latest edition of "Standard Methods for the Examination of Water and Wastewater" prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, or other methods approved and specified by the Executive Officer of this Regional Board.

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health or a laboratory approved by the Executive Officer. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

III. DEFINITION OF TERMS

1. A grab sample is defined as an individual sample collected in fewer than 15 minutes.

2. Standard Observations

- a. Land Retention or Pond Area

This applies both to liquid and solid wastes confined or unconfined.

- (1) Determine height of the freeboard at lowest point of dikes confining liquid wastes.
 - (2) Evidence of leaching liquid from area of confinement and estimated size of affected area. (Show affected area on a

sketch.)

- (3) Odor: presence or absence, characterization, source, and distance of travel.
- (4) Estimated number of waterfowl and other water-associated birds in the pond area and vicinity.
- (5) Evidence of mosquitoes breeding in the vicinity of pond area.
- (6) Warning signs or notices adequately posted to inform public that the water contained in the pond is sewage and is unsuitable for human consumption.

b. Receiving Water

- (1) Floating, suspended, or deposited macroscopic particulate matter or foam: presence or absence, source, and size of affected area. (Show affected area on a sketch)
- (2) Discoloration and turbidity: description of color, source, and size of affected area.
- (3) Odor: presence or absence, characterization, source, and distance of travel.
- (4) Visible floating, suspended, or deposited oil or other product of petroleum origin.

IV. DESCRIPTION OF SAMPLING STATIONS AND SCHEDULE OF SAMPLING, ANALYSIS AND OBSERVATIONS

A. Pond Influent

At any point prior to the pond inlet at which all wastewater tributary to the pond system are present:

Monthly, determine average daily flow, in gallons per day, of wastewater entering the pond system.

B. Holding/Treatment Pond

At any point in the pond within one foot of the water surface and no less than three feet from the bank, representative of the wastewater:

1. Monthly, a grab sample to determine Dissolved Oxygen (D.O.) concentration, in mg/l. If D.O. is less than 2.0 mg/l, sample for Dissolved Sulfide.
2. Monthly, a grab sample to determine pH.

Along the pond perimeter at equidistant interval not to exceed 200 feet, and along the east bank of Carnerous Creek, within 200 feet

from the edge of the ponds: (A sketch showing the location of these stations shall accompany each report)

Weekly, perform standard observations as described in III.2.a. above.

C. Evaporation/Disposal Pond

Along the pond parameter at equidistant interval not to exceed 200 feet, and along the north bank of Carnerous Creek, within 200 feet of the pond area: (A sketch showing the location of these stations shall accompany each report.)

Weekly, perform standard observations as described in III.2.a. above.

D. Dredge Spoil Disposal Area

Along the perimeter levee of the dredge spoil impoundment area at equidistant intervals not to exceed 200 feet: (A sketch showing the location of these stations shall accompany each report.)

Daily, throughout the project duration for dredging operation, perform standard observations as described in Items (1) through (5) of III.2.a. above.

E. Receiving Water - Dredging Operation

Daily, throughout the project duration for dredging operation, perform standard observations as described in III.2.b. above at the following observation stations (when performing dredging operation):

<u>Station</u>	<u>Description</u>
C-1	At a point in the Napa River located approximately 100 feet from the mouth of the marina, upstream of the prevailing current.
C-2	At a point in the Napa River located in the immediate vicinity of the mouth of the marina.
C-3	At a point in the Napa River located approximately 100 feet from the mouth of the marina, downstream of the prevailing current.
C-4	At a point in the Napa River located approximately 500 feet from the mouth of the marina, downstream of the prevailing current.

V. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Violation of Requirements:

In the event the Discharger is unable to comply with the conditions of the waste discharge requirements and prohibitions due to:

- (a) maintenance work, power failure, or breakdown of waste treatment equipment, or
- (b) accidents caused by human error or negligence, or
- (c) other causes such as acts of nature,

the Discharger shall notify the Regional Board office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to prevent the problems from recurring.

2. Self-Monitoring Reports

Written reports shall be filed regularly for each calender month during the dredging operation period, or for each calender quarter during the remaining of the year, and submitted by the fifteenth day of the following month. The reports shall be comprised of the following:

a. Letter of Transmittal:

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirement violations found during the past month/quarter and actions taken or planned for correcting violations, such as operation modifications and/or facilities expansion. If the Discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

b. Results of Analyses and Observations

Tabulations of the results from each required analysis and/or observation specified in IV above by date, time, type of sample, and station.


c. List of Approved Analyses

- (1) Listing of analyses for which the Discharger is approved by the State Department of Health.
- (2) List of analyses performed for the Discharger by another

approved laboratory (and copies of reports signed by the laboratory director of that laboratory shall also be submitted as part of the report).

I, Roger B. James, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with the Waste Discharge Requirements established in Regional Board Order No. 86-97.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the Discharger, and revisions will be ordered by the Executive Officer.


ROGER B. JAMES
Executive Officer

Effective Date: DECEMBER 18, 1986